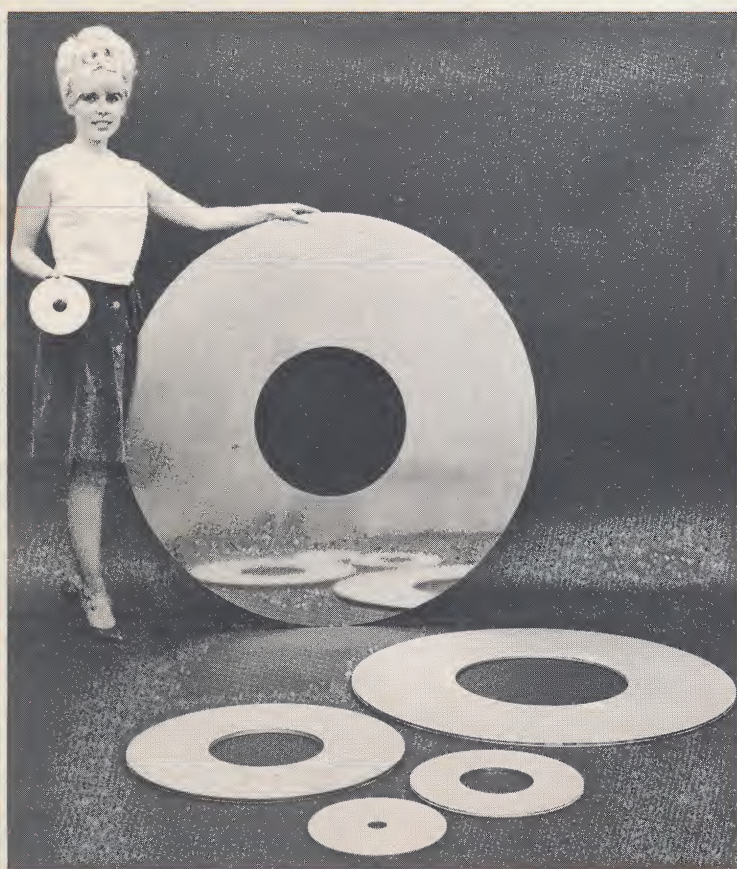




"THE LARGEST LINE OF DISC MEMORIES"

GENERAL PRECISION/LIBRASCOPE UNVEILS NEW DISC MEMORIES

PRESS KIT

SPRING JOINT COMPUTER CONFERENCE
Boston, Mass. • APRIL 26-28 • Booths 913-916

**GP GENERAL
PRECISION INC.**

LIBRASCOPE GROUP

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NOTE TO EDITORS:

Librascope Group of General Precision, Inc. is introducing three new disc memories at the Spring Joint Computer Conference. The memories, covered individually in enclosed news releases, are the L210 disc memory system, the L416 disc memory system, and the L207 militarized disc memory.



Al Erickson
Director of Public Relations

NEWS RELEASE FROM LIBRASCOPE GROUP GENERAL PRECISION, INC.

FOR IMMEDIATE RELEASE

FOR ADDITIONAL INFORMATION: AL ERICKSON, DIRECTOR OF PUBLIC RELATIONS

LIBRASCOPE INTRODUCES LARGE-CAPACITY, SMALL-SIZE MILITARIZED DISC MEMORY

GLENDAL, Calif., (April 26, 1966) -- A militarized disc memory with a capacity of more than 1 million bits, yet weighing only 11 pounds and measuring less than 1/2 cubic foot has been developed by Librascope Group of General Precision, Inc.

The high-speed memory -- designated the L207 is designed to provide high-reliability performance in extreme environments, meeting or exceeding the requirements of Mil-E-5400 G Class II.

Librascope, which offers the largest line of disc memories in the computer industry, announced the L207 militarized disc memory at the Spring Joint Computer Conference in Boston.

According to Librascope President R. W. Lee, the unit is designed

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and the L207 militarized disc memory.

A handwritten signature in dark ink, reading "Al Erickson". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Al Erickson
Director of Public Relations

NEWS RELEASE FROM LIBRASCOPE GROUP GENERAL PRECISION, INC.

FOR ADDITIONAL INFORMATION: AL ERICKSON, DIRECTOR OF PUBLIC RELATIONS

FOR IMMEDIATE RELEASE

NEW LIBRASCOPE DISC MEMORY FEATURES INTEGRATED CIRCUITRY

GLENDAL, Calif. (April 26, 1966), -- A high-performance disc-memory system utilizing integrated circuitry has been developed by Librascope Group of General Precision, Inc.

According to R. W. Lee, Librascope president, the new high-speed memory is designed for easy plug-in operation as a data storage device in computerized communications or control networks, or as on-line equipment in commercial or military computer systems.

The memory, called the Model L416, is part of the firm's Series L400 Magnetic-Disc Memory Systems. Librascope, which offers the largest line of disc memories in the computer industry, introduced the L416 at the Spring Joint Computer Conference, Boston.

The use of integrated circuitry represents a first in the Librascope disc-memory line, Lee said. Lee stated that use of integrated-circuits, which are packaged and mounted right on the head-mounting plate, provides the compactness and reliability necessary to meet the memory's high performance requirements.

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■ LINK GROUP: INDUSTRIAL CONTROLS DIVISION | SYSTEMS DIVISION | ORDANCE DIVISION

GENERAL PRECISION, INC., IS THE PRINCIPAL OPERATING SUBSIDIARY OF GENERAL PRECISION EQUIPMENT CORPORATION, TARRYTOWN, N. Y.

The new L416 disc memory features a storage capacity in excess of 24 million bits of information, utilizing both sides of its two 16-inch magnetic discs.

The memory can be obtained with a smaller capacity, then expanded in the field to the maximum capacity at any given time.

The new L416 memory has an average access time of 8 milliseconds. It features read/write heads of the flying-head type which, because they are mounted on head bars and provided with an automatic-retracting mechanism, never come in contact with the disc.

These advantages, plus the use of a durable cobalt disc coating, assure outstanding magnetic performance under all operating conditions.

Both sides of each disc -- one mounted at each end of a double-ended motor -- are readily accessible for easy service and for mounting the read/write heads. Strength is afforded through the aluminum construction of the discs and all supporting structures which makes them, as well, extremely rigid and light weight.

Primary applications of the new memory is main storage, buffer storage, or as a supplement to other memories.

Librascope Group's parent firm, General Precision, Inc., is the principal operating subsidiary of General Precision Equipment Corp., Tarrytown, N. Y.

For additional information, contact Al Erickson, Director of Public Relations, Librascope Group, General Precision, Inc., 808 Western Ave., Glendale, Calif., telephone 245-8711, Ext. 1444.

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FROM: General Precision, Inc.
Librascope Group
Glendale, Calif.

INTEGRATED CIRCUITRY is used for the first time in a Librascope disc memory in the new high-performance Model L416 shown here.

Packaged and mounted directly on the head-mounting plate, integrated circuits greatly enhance the memory's compactness and reliability.

Here, a Librascope employee checks circuitry before delivery.

NEWS RELEASE FROM LIBRASCOPE GROUP GENERAL PRECISION, INC.

FOR IMMEDIATE RELEASE

FOR ADDITIONAL INFORMATION: AL ERICKSON, DIRECTOR OF PUBLIC RELATIONS

LIBRASCOPE INTRODUCES LARGE-CAPACITY, SMALL-SIZE MILITARIZED DISC MEMORY

GLENDAL, Calif., (April 26, 1966) -- A militarized disc memory with a capacity of more than 1 million bits, yet weighing only 11 pounds and measuring less than 1/2 cubic foot has been developed by Librascope Group of General Precision, Inc.

The high-speed memory -- designated the L207 is designed to provide high-reliability performance in extreme environments, meeting or exceeding the requirements of Mil-E-5400 G Class II.

Librascope, which offers the largest line of disc memories in the computer industry, announced the L207 militarized disc memory at the Spring Joint Computer Conference in Boston.

According to Librascope President R. W. Lee, the unit is designed especially for military and space applications, and can be used with any type of shipboard, airborne, or fieldable data system.

"The L207 can be used as the main memory, or to supplement other memories, or for buffer storage," Lee said.

"The memory's small size and light weight -- together with its resistance to shock and vibration, temperature extremes, and altitude -- should make it extremely useful for navigational computers, for tactical

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command-and-control systems, or as 'add on' memory for almost any naval, aircraft, spacecraft, and mobile field-data system."

As the main memory, the L207 provides storage for more than 1 million bits of data, with average access time only 4 milliseconds.

For 'temporary' storage such as in a 'scratchpad' memory, a number of recirculating registers can be provided. This flexibility is a feature of Librascope's use of a flying head per track of data. Data can be written and read in serial or in parallel format, with individually positioned heads used for recirculating registers. The number of parallel bits is limited only by the size of the disc itself, or by the requirements of the data processor.

The recording heads "fly" above the surface of the magnetic disc when it rotates. By thus riding on a thin cushion of air, the heads are not in contact with the disc at operating speed, and the excessive wear that would result otherwise, is prevented.

The high-speed characteristics of the L207 memory are a result of three factors: high rotation speed (8000 rpm), small disc size (6-1/2 inch diameter), and high bit-packing density (approximately 900 bits per inch). The data transfer rate is 9 million bits per second. The memory measures 7-1/2 x 7-1/2 x 5 inches.

Organizational flexibility is illustrated by two typical file organizations. In one, 120 recording heads are mounted 12 to a head bar. 16-bit parallel recording is used, with two 8-bit bytes. In the second, 72 tracks are used for general storage; 19 recirculating registers are used for temporary storage. The capacity of the recirculators ranges from 16 words (32 bits each, plus spacer) to 210 words; one recirculator utilizes two read heads, one at

16 words, the other at 64 words. The recording heads used for general storage are mounted on head bars. Those used for the recirculating registers are mounted and positioned individually.

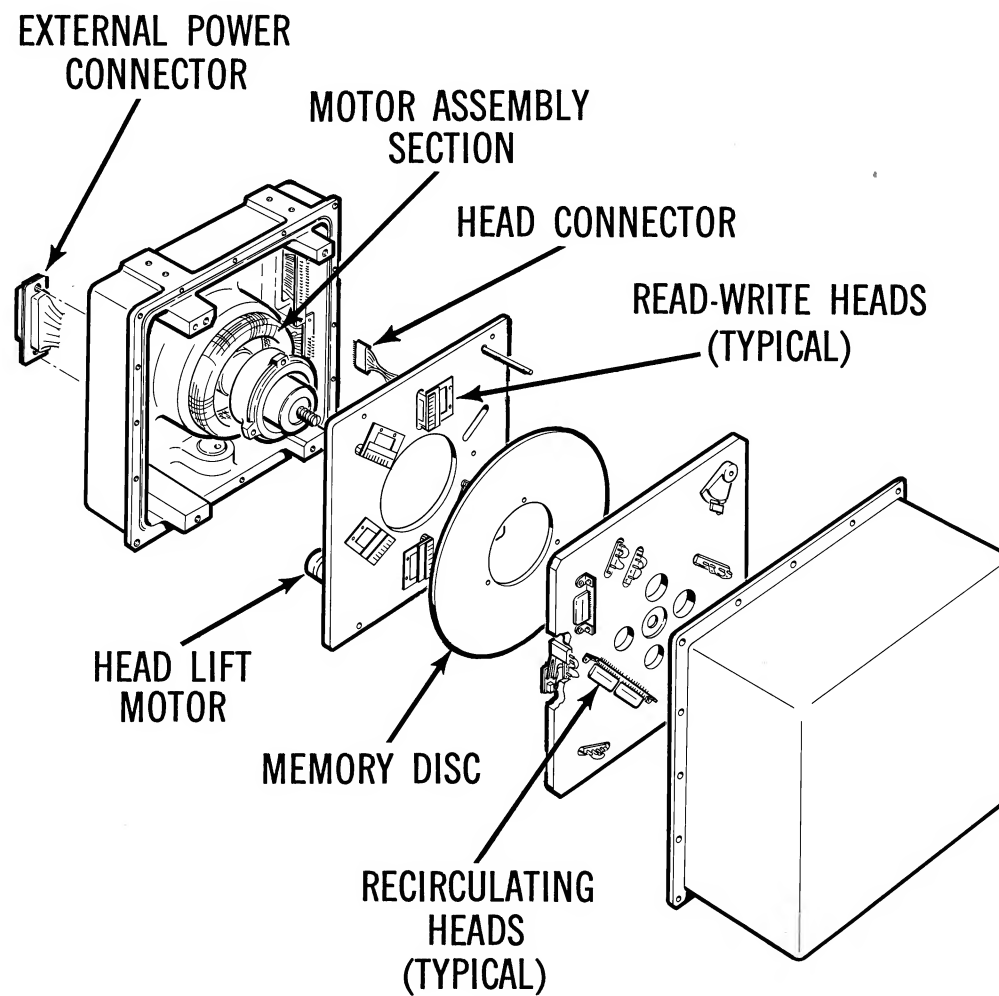
General Precision, Inc., parent firm of the Librascope Group, is the principal operating subsidiary of General Precision Equipment Corp., Tarrytown, N. Y. For additional information, contact Al Erickson, Director of Public Relations, Librascope Group, General Precision, Inc., Glendale, Calif.

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FROM: General Precision, Inc.
Librascope Group
Glendale, Calif.

SMALL SIZE AND LARGE CAPACITY characterize the new L207 militarized disc memory introduced by the Librascope Group of General Precision, Inc. Shown here, the high-speed memory has a capacity of more than 1 million bits, yet it weighs only 11 pounds and measures less than 1/2 cubic foot. The L207 is designed especially for military and aerospace applications.



FROM: General Precision, Inc.
Librascope Group
Glendale, Calif.

HIGH-RELIABILITY PERFORMANCE in extreme environments is combined with compact design in the new L207 militarized disc memory introduced by the Librascope Group of General Precision, Inc. Drawing shows construction of this small-size, large-capacity memory. Designed for military and aerospace applications, the L207 has a capacity of more than 1 million bits, yet measures less than 1/2 cubic foot, weighs only 11 pounds, and utilizes a disc 6-1/2 inches in diameter.

NEWS RELEASE FROM LIBRASCOPE GROUP GENERAL PRECISION, INC.

FOR ADDITIONAL INFORMATION: AL ERICKSON, DIRECTOR OF PUBLIC RELATIONS

FOR IMMEDIATE RELEASE

LIBRASCOPE INTRODUCES LINE OF VERSATILE, LOW-COST DISC MEMORIES

GLENDAL, Calif. (April 26, 1966) -- A line of low-cost magnetic-disc memory systems which offer the user great flexibility in choice of access times, bit capacities, and number of recording heads has been developed by Librascope Group of General Precision, Inc.

The versatile new disc memories -- designated the Series L210 -- are available in 15 different off-the-shelf models, with storage capacities varying up to 2 million bits.

Each memory system utilizes a single magnetic disc, 10 inches in diameter, in a compact package that measures less than 1 cubic foot and weighs 35 pounds. Discs rotate at speeds of 1200, 1800, or 3600 rpm, affording access times of 8, 17, or 25 milliseconds.

Librascope, which offers the largest line of disc memories in the computer industry, announced the new L210 disc memory line at the Spring Joint Computer Conference in Boston.

"The L210 series, like all Librascope disc memories, may be used as the main memory, for buffer storage, or to supplement other memories," said R. W. Lee, president of Librascope. "The modular construction of



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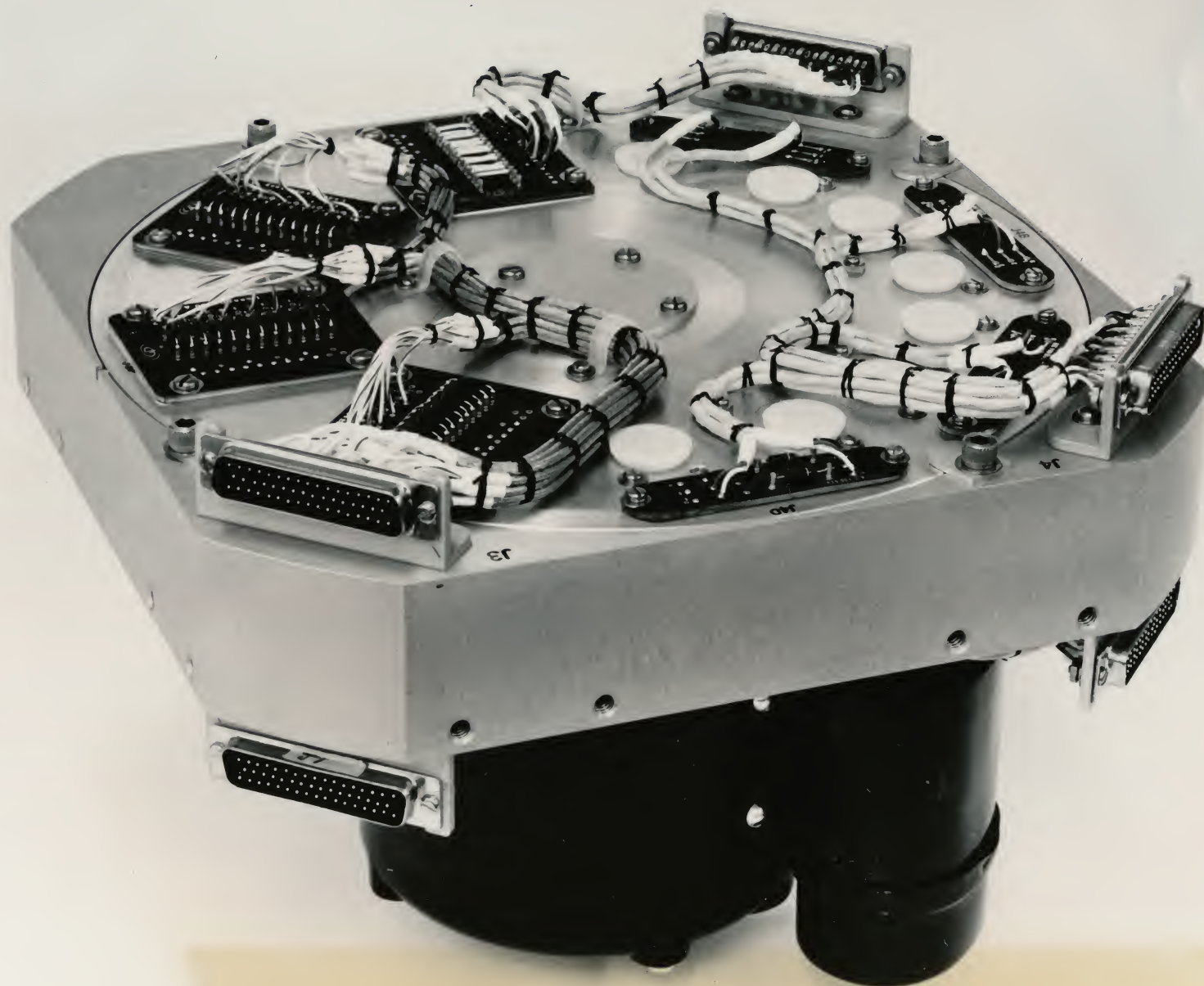
these memory systems provides the user with a virtually custom-designed unit at an economical price. A wide variety of combinations of recirculating registers and data tracks are available. The combinations include up to 16 recirculating registers and 64 data tracks, or 32 recirculating registers, or 128 data tracks on both surfaces. Units may utilize many different combinations of these maximum recirculators and permanent memory tracks, or a unit might use all tracks for general storage, except those required for timing or reserved as spares," continued Mr. Lee.

Utilizing Librascope's "flying-head-per-track-of-data" design, the aerodynamically balanced read/write heads "fly" on a thin cushion of air while the disc is rotating, providing minimum wear on disc and heads. The use of individual heads for each track of data obviates the need for a complex and cumbersome head-positioning mechanism.

The magnetic surface of each disc is a smooth, hard, long-wearing nickel-cobalt coating, developed by Librascope and used on all its disc memories. This surface, together with the flying heads and a precision-balanced motor drive, assures optimum magnetic performance and long, trouble-free life with minimum maintenance. Spare heads, mounted adjacent to those in use, need only be wired for immediate operation.

Other Librascope memories range in capacity from 30,000 data bits to more than 400 million bits, and utilize discs varying in size from 6-1/2 inches in diameter to 48 inches in diameter. Most models can be tailored to the user's exact requirements and can be delivered virtually off-the-shelf.

General Precision, Inc., parent firm of Librascope Group, is the principal operating subsidiary of General Precision Equipment Corp., Tarrytown, N.Y.



FROM: General Precision, Inc.
Librascope Group
Glendale 1, Calif.

LOW-COST-PER-BIT data storage is an important feature of the new line of Series L210 computer disc memory systems introduced by the Librascope Group of General Precision, Inc. This photograph shows one of the 15 different off-the-shelf models available. Modular design of the L210 series gives users a choice of storage capacities up to 2 million bits on a 10 inch diameter magnetic disc, access times of 8, 17, or 25 milliseconds, and many combinations of recirculating registers and data tracks.

